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IN : TAKAHASHI YOSHIKAZU

SUZUKI MASAHIKO

PA : BROTHER IND LTD

TI : PIEZOELECTRIC INK PRINTER HEAD

AB : PURPOSE: To simplify a structure and improve a resolving power in printing by a construction wherein ink is jetted by applying a drive voltage only to inner electrode layers corresponding to a predetermined jetting device of a piezoelectric actuator provided over a plurality of jetting devices.

CONSTITUTION: An array 30 used for a piezoelectric ink jet printer head comprises a channel body 34 for forming three ink channels 32a-32c; a laminate piezoelectric element 38 securely bonded to the channel body 34; and an orifice plate 36 securely bonded to the channel body 34 on the side opposite to the piezoelectric element 38 and having orifices 37a-37c. The laminate piezoelectric element 38 is so constructed that piezoelectric ceramics layers 40, inner negative electrode layers 42, and divided inner positive electrode layers 44a-44c having a ratio of 1: 1 to the channels 32a-32c are laminated by a plurality of layers, respectively. In addition, the widths of the ink channels 32a-32c in an array direction are determined to be larger than the widths of the inner positive electrode layers 44a-44c.

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